

ABSTRACT OF THE DISCLOSURE

Sub A1

A method and system for detecting a physical device configuration inside a network node and displaying the configuration of a network in connection with a plurality of devices, in a network environment including SNMP-implemented intelligent network devices. ICMP echo requests are sent from an administrator terminal implementing an SNMP manager to individual network devices in the network node so that active devices are detected on the basis of responses therefrom. Then, transfer requests for information stored in the management information bases of the respective devices are sent to the SNMP agents in the individual devices detected, so that the types of the devices in the network node are detected based on the information stored in the management information bases returned. A set of physical addresses of devices connected to ports of a device having a bridge function is obtained from the management information base of the device. Information as to physical-IP address correspondence is also obtained from the management information base of a device having a routing function. Then, the devices connected to the ports of the device having a bridge function are recognized at an IP level on the basis of the acquired information as to physical-IP address correspondence. Moreover, based on the connection information collected from packet relay equipment, the configuration and connections of the devices are displayed with

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their respective objects.

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